Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-6. (canceled)

7. (currently amended) A self calibrating network, comprising:

a first node to transmit a test signal; and

a second node to receive said test signal and to adjust a second node transceiver to optimize a transfer of data between said first node and said second node, said adjustment of said second node transceiver being based on at least one of available criteria comprising a noise measurement value, a propagation delay value and a bit rate error value;

wherein during said adjustment of said second node transceiver one of said first node or said second node issues a network lock command on the network, ceasing nodes other than said first node or said second node from communicating on the network.

8. (previously presented) The self calibrating network according to claim 7, wherein:

said first node or said second node issues an unlock command on the network, giving permission to all nodes on the network to again begin communication.

9-14. (canceled)

15. (currently amended) A method for self calibrating a network, comprising:

transmitting a test signal from a first node;

receiving said test signal by a second node;

adjusting a second node transceiver to optimize a transfer of data between said first node and said second node, said adjustment of said second node transceiver being based on at least one of available criteria comprising a noise measurement value, a propagation delay value and a bit rate error value;

issuing during said adjustment of said second node transceiver from ~~said~~ one of said first node or said second node a network lock command on the network; and

ceasing nodes other than said first node or said second node from communicating on the network.

16. (previously presented) The method for self calibrating a network according to claim 15, further comprising:

issuing from said first node or said second node an unlock command on the network, giving permission to all nodes on the network to again begin communication.

17-22. (canceled)

23. (currently amended) A means for self calibrating a network, comprising:

transmitter means for transmitting a test signal from a first node;

receiver means for receiving said test signal from said first node;

adjust means for adjusting a second node transceiver to optimize a transfer of data between said first node and said second node, said adjustment of said second node transceiver being based on at least one of available criteria comprising a noise measurement value, a propagation delay value and a bit rate error value; and

issue means for issuing during said adjustment of said second node transceiver from ~~said~~ one of said first node or said second node a network lock command on the network, ceasing nodes other than said first node or said second node from communicating on the network.

24. (previously presented) The means for self calibrating a network according to claim 23, further comprising:

issue means for issuing from said first node or said second node an unlock command on the network, giving permission to all nodes on the network to again begin communication.